47. (New)   A method according to claim 46, further comprising the steps of:

determining a ultrafiltration flow rate (UFR) of plasma water through the membrane of the filter; and

calculating the characteristic value as an actual permeability (K_{uf}) equal to the ratio between the ultrafiltration flow rate (UFR) and the mean transmembrane pressure value (TMP_{ave}).

IN THE ABSTRACT

Add new page 24 after the claims, adding the following ABSTRACT OF THE DISCLOSURE. A new separate page 24 is enclosed.

--ABSTRACT OF THE DISCLOSURE

A dialysis machine having

an extracorporeal blood circuit having an arterial pipe and a venous pipe respectively connected to an inlet and an outlet of a blood compartment of a filter having a blood compartment and a dialysis liquid compartment separated by a semi-permeable membrane;

means for determining a sequence of infusion of a liquid in the extracorporeal blood circuit, from at least one characteristic value (FF, TMP_{ave}, K_{uf}) correlated with the concentration of the blood (C_E) and/or a filtration efficiency of the filter; and

means for infusing the infusion solution in the arterial pipe and in the venous pipe in accordance with the determined infusion sequence.